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NOV 13 2001

Page 1 of 4

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TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/469,485

DATE: 09/21/2001

TIME: 20:50:42

Input Set : A:\20369Y - SeqList.txt

Output Set: N:\CRF3\09212001\I469485.raw

ENTERED

4 <110> APPLICANT: ZHAO, QINJIAN
5 SITRIN, ROBERT
6 ABRAHAM, DICKY G.
7 GERVAIS, DAVID P.
8 GIMINEZ, JUAN
9 WANG, YANG
11 <120> TITLE OF INVENTION: IMPROVED RECOMBINANT HEPATITIS B SURFACE
12 ANTIGEN
14 <130> FILE REFERENCE: 20369Y
16 <140> CURRENT APPLICATION NUMBER: 09/469,485
17 <141> CURRENT FILING DATE: 1999-12-22
19 <150> PRIOR APPLICATION NUMBER: 60/113,400
20 <151> PRIOR FILING DATE: 1998-12-23
22 <160> NUMBER OF SEQ ID NOS: 4
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 4
28 <212> TYPE: PRT
29 <213> ORGANISM: Hepatitis B
31 <220> FEATURE:
32 <221> NAME/KEY: VARIANT
33 <222> LOCATION: (1)...(4)
34 <223> OTHER INFORMATION: Xaa = Any Amino Acid
36 <400> SEQUENCE: 1
37 Cys Xaa Tyr Cys
38 1
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 4
42 <212> TYPE: PRT
43 <213> ORGANISM: Hepatitis B
45 <400> SEQUENCE: 2
46 Cys Lys Thr Cys
47 1
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 351
51 <212> TYPE: DNA
52 <213> ORGANISM: Mouse
54 <400> SEQUENCE: 3
55 gacattgtgc tgacccagtc tccagcaatc atgtctgcat ctccagggga gaaggtcacc 60
56 atgacctgca gtgccagctc aagtgttaagt tacatgtact ggtaccagca gaagccagga 120
57 tcttccccca gactcctgat ttttgacaca tccaacctgc cttctggagt ccctgttcgc 180
58 ttccagtggca gtgggtctgg gacctcttac tctctcacia tcagccgaat ggaggctgaa 240
59 gatgctgcca cttattactg ccagcgggtg agtacttacc caccatcac gttcggaggg 300
60 gggaccaaac tggaaataaa acgggctgat gctgcaccaa ctgtatccat c 351
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 345
64 <212> TYPE: DNA

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65 <213> ORGANISM: Mouse

67 <400> SEQUENCE: 4

68 gatgtgcac	ttcaggagtc	gggacctgag	ctggtgaagc	ctggggcttc	agtgaagata	60
69 tcctgcaagg	cttctggcta	ctccttcatt	gaccactata	taaactgggt	gaagcagaag	120
70 cctggacagg	gacttgagtg	gattggatgc	ttttttcctg	gaagcggtaa	tagtaagtac	180
71 attgagaact	tcaggggcaa	ggccacattg	actgtagaca	catcctccag	tacagcctac	240
72 atgcagctca	gcagcctgac	atctgaggac	actgctgtct	atttctgtgc	aagggatgat	300
73 tccgacggag	ctatggacta	ctgggggtcaa	ggaacctcag	tcacc		345

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/469,485

DATE: 09/21/2001

TIME: 20:50:43

Input Set : A:\20369Y - SeqList.txt

Output Set: N:\CRF3\09212001\I469485.raw

L:37 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1